IN THE SPECIFICATION:

Please amend paragraph 27 as follows:

[27]   The optimal weight vector may be calculated by the following equation (1) at the weight vector calculation part 203.

$$\underline{w} = \left[\sum_{k=1}^{K} \sigma_k \underline{a}(\theta_k)\underline{a}(\theta_k)^H \right]^{-1} \mathrm{E}\left[\sum_{i=1}^{L} \underline{a}(\theta_i) \right] \quad\cdots\cdots\cdots (1)$$

$$\underline{w} = \left[\sum_{k=1}^{K} \sigma_k \underline{a}(\theta_k)\underline{a}(\theta_k)^H \right]^{-1} \mathrm{E}\left[\sum_{i=1}^{L} \underline{a}(\theta_i) \right] \quad\cdots\cdots\cdots (1)$$